Please add the following new claims:

-- 48. Apparatus, comprising:

means for enabling visual observation of proper placement of an endotracheal tube in the trachea of a patient, said means comprising:

a. an endotracheal apparatus which includes a tracheal tube defining a gas path; and

b. a CO_2 detector disposed within said endotracheal apparatus at a location which is in said gas path of said tube and is visible when said endotracheal tube is inserted, said detector comprising a backing and an indicator material, said indicator material comprising a support material, a pH-sensitive dye, and a phase transport enhancer for enhancing a reaction between a gas (such as) CO_2 and said pH-sensitive dye, said phase transport enhancer having the formula:

$$R_1 - \underset{\displaystyle R_4}{\overset{\displaystyle R_2}{\overset{|}{\underset{|}{X^+}}}} - R_3 \quad Y^- \qquad \text{or} \qquad N^+ - R_5 \quad Y^-$$

wherein X = N or P,

R_1, R_2, R_3 and R_4 are selected from the group consisting of C_1-C_{12} alkyl,

C_1-C_4 substituted alkyl wherein the substituent is a C_1-C_4 alkyl or phenyl group, naphthyl,

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benzyl, and
pyridine;

R_5 is selected from the group consisting of C_1-C_{12} alkyl and benzyl; and

Y^- is an anion selected from the group consisting of hydroxide, fluoride, chloride, bromide, iodide, carbonate and tetrafluoroborate.

49. Apparatus as recited in claim 48, wherein said phase transport enhancer is selected from the group consisting of tetrabutylammonium hydroxide, tetrabutylammonium chloride, tetraethylammonium bromide, tetraethylammonium p-toluenesulphonate, phenyltrimethylammonium chloride, benzyltrimethylammonium bromide, tetra-n-propylammonium bromide, benzyltriethylammonium tetrafluoroborate, n-dodecyltrimethylammonium bromide, tetraphenylphosphonium chloride, n-hexadecylpyridinium bromide and triphenylmethyltriphenylphosphonium chloride.

50. A tracheal intubation apparatus, comprising: means for receiving gas expired from a person; and a detector disposed within said means for visually indicating whether a substantial concentration of CO_2 is present in said gas, wherein said detector comprises indicator material which changes from one color in the presence of CO_2, and changes to another color in response to an absence of CO_2, said indicator material comprising a support material, a pH-sensitive dye, and a phase transport enhancer for enhancing a reaction between a gas such as CO_2 and said pH-sensitive dye, said phase transport enhancer having the formula:

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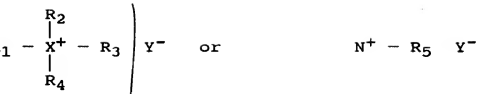

wherein X = N or P,

R_1, R_2, R_3 and R_4 are selected from the group consisting of C_1-C_{12} alkyl,

C_1-C_4 substituted alkyl wherein the substituent is a C_1-C_4 alkyl or phenyl group,

naphthyl,

benzyl, and

pyridine;

R_5 is C_1-C_{12} alkyl or benzyl; and

Y^- is an anion selected from the group consisting of hydroxide, fluoride, chloride, bromide, iodide, carbonate and tetrafluoroborate.

51. A tracheal intubation apparatus, comprising:

means for receiving gas expired from a person; and

a detector disposed within said means for visually indicating whether a substantial concentration of CO_2 is present in said gas; wherein said detector comprises a phase transport enhancer and a dye solution applied to a support material, said phase transport enhancer enhancing a reaction between a gas such as CO_2 and said dye solution.

52. A breath indicator comprising:

a. means for receiving CO_2;

b. a detector disposed within said means for receiving CO_2, said detector comprising means for changing between a first color and a second color, said first color indicating an absence of CO_2 and

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said second color indicating a presence of CO_2, said means for changing between a first color and a second color comprising indicator material, said indicator material further comprising a dye and a phase transport enhancer for enhancing a reaction between a gas such as CO_2 and said dye, said phase transport enhancer having the formula:

$$R_1 - \overset{\overset{R_2}{|}}{\underset{\underset{R_4}{|}}{X^+}} - R_3 \quad Y^- \qquad \text{or} \qquad N^+ - R_5$$

wherein X = N or P,

R_1, R_2, R_3 and R_4 are selected from the group consisting of C_1-C_{12} alkyl,

C_1-C_4 substituted alkyl wherein the substituent is a C_1-C_4 alkyl or phenyl group,

naphthyl,

benzyl, and

pyridine;

R_5 is C_1-C_{12} alkyl or benzyl; and

Y^- is an anion selected from the group consisting of hydroxide, fluoride, chloride, bromide, iodide, carbonate and tetrafluoroborate.

53. A breath indicator comprising:

a. means for receiving CO_2;

b. a detector disposed within said means for receiving CO_2, said detector comprising means for changing between a first color and a second color, said first color indicating an absence of CO_2 and said second color indicating a presence of CO_2, said means for changing between a first color and a second color comprising indicator material, said

B1 (continued)

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indicator material comprising a support material, a pH-sensitive dye applied to said support material, and a phase transport enhancer for enhancing a reaction between a gas such as CO_2 and said pH -sensitive dye.

54. A method for determining the proper placement of an endotracheal intubation device comprising the steps of

(1) inserting a device into the trachea of a patient, said device comprising:

(a) an endotracheal apparatus which includes a tracheal tube defining a gas path; and

(b) a CO_2 detector disposed within said endotracheal apparatus at a location which is in the gas path of said tube and is visible when said endotracheal tube is inserted, said detector being capable of indicating whether a substantial concentration of CO_2 is present in said gas, said CO_2 detector comprising a backing, and an indicator material, said indicator material comprising a solid phase support, a pH-sensitive dye, and a phase transport enhancer for enhancing a reaction between a gas such as CO_2 and said pH-sensitive dye, said phase transport enhancer having the formula:

(continued)

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wherein X = N or P,

R_1, R_2, R_3 and R_4 are selected from the group consisting of C_1-C_{12} alkyl,

C_1-C_4 substituted alkyl wherein the substituent is a C_1-C_4 alkyl or phenyl group,

naphthyl,

benzyl, and

pyridine;

R_5 is selected from the group consisting of C_1-C_{12} alkyl and benzyl; and

Y^- is an anion selected from the group consisting of hydroxide, fluoride, chloride, bromide, iodide, carbonate and tetrafluoroborate; and

(2) observing a color change of the indicator which indicates the presence of CO_2 in the respiratory gas and thereby the proper placement of the endotracheal tube.

55. The method of claim 54, wherein said phase transport enhancer is selected from the group consisting of tetrabutylammonium hydroxide, tetrabutylammonium chloride, tetraethylammonium bromide, tetraethylammonium p-toluenesulphonate, phenyltrimethylammonium chloride, benzyltrimethylammonium bromide, tetra-n-propylammonium bromide, benzyltriethylammonium tetrafluoroborate, n-dodecyltrimethylammonium bromide, tetraphenylphosphonium chloride, n-hexadecylpyridinium bromide

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